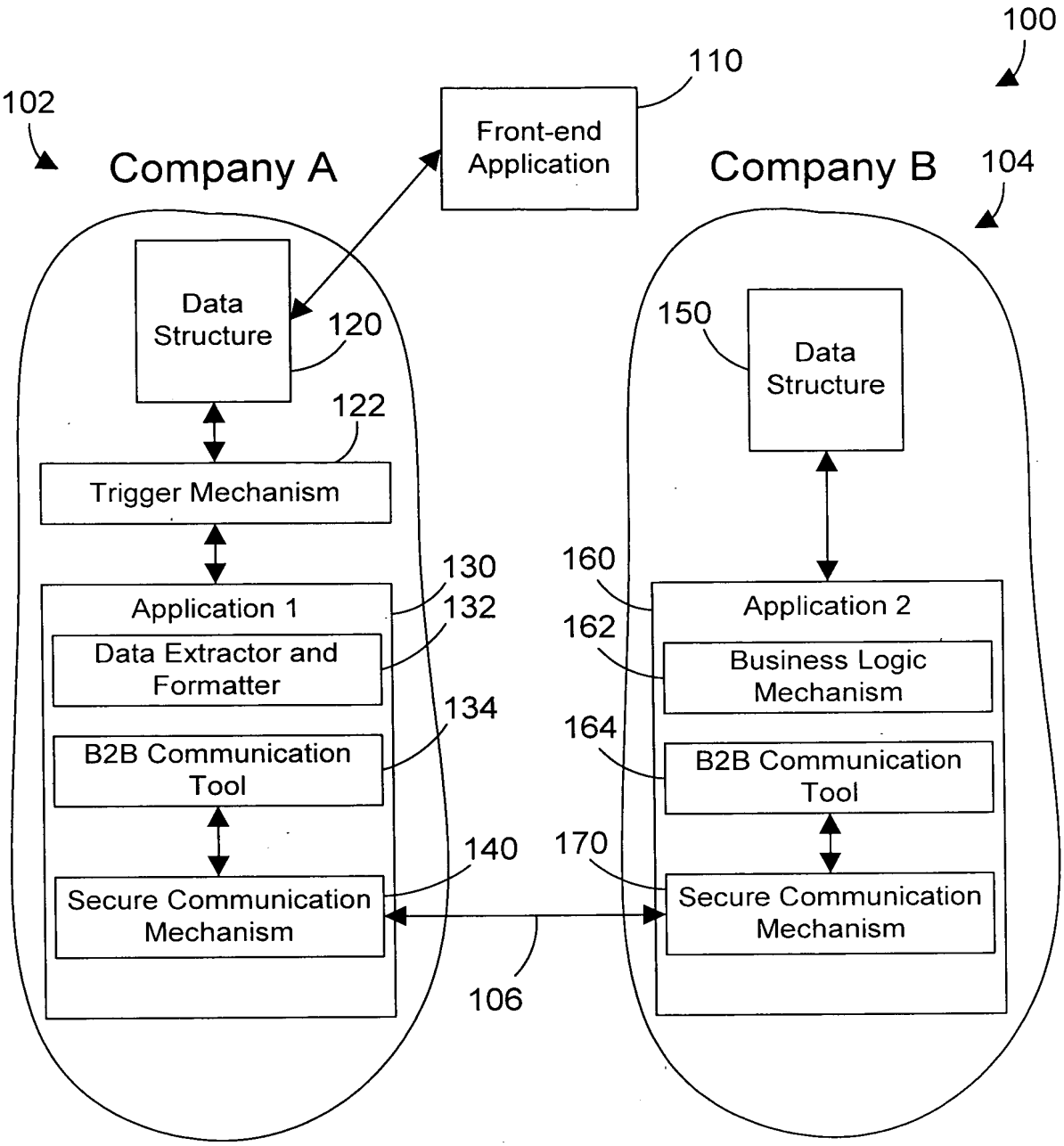
100
110
102
Front-end Application
Company A
Company B
104
Data Structure
120
150
Data Structure
122
Trigger Mechanism
130
160
Application 1
Application 2
132
162
Data Extractor and Formatter
Business Logic Mechanism
134
164
B2B Communication Tool
B2B Communication Tool
140
170
Secure Communication Mechanism
Secure Communication Mechanism
106

FIG. 1

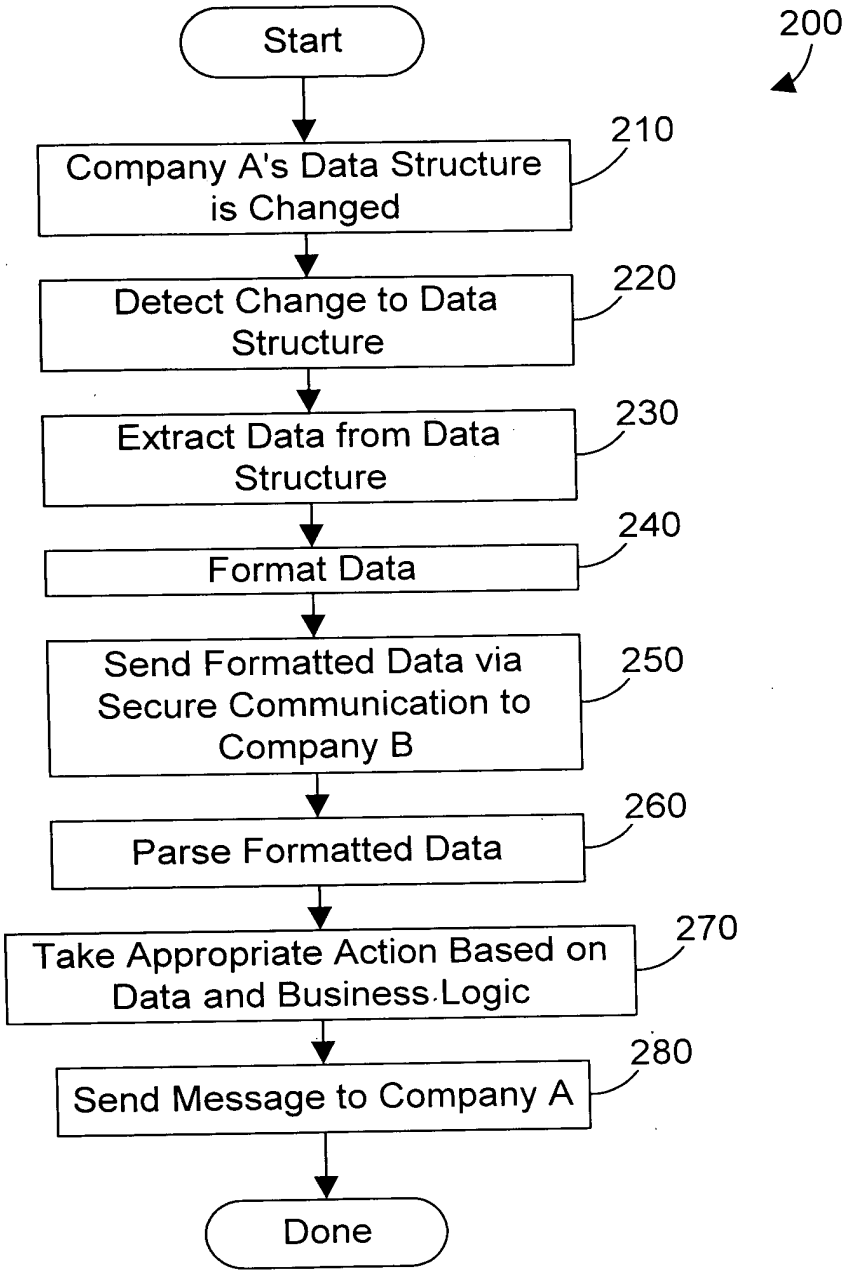
200
Start
Company A's Data Structure is Changed
210
Detect Change to Data Structure
220
Extract Data from Data Structure
230
Format Data
240
Send Formatted Data via Secure Communication to Company B
250
Parse Formatted Data
260
Take Appropriate Action Based on Data and Business Logic
270
Send Message to Company A
280
Done

FIG. 2

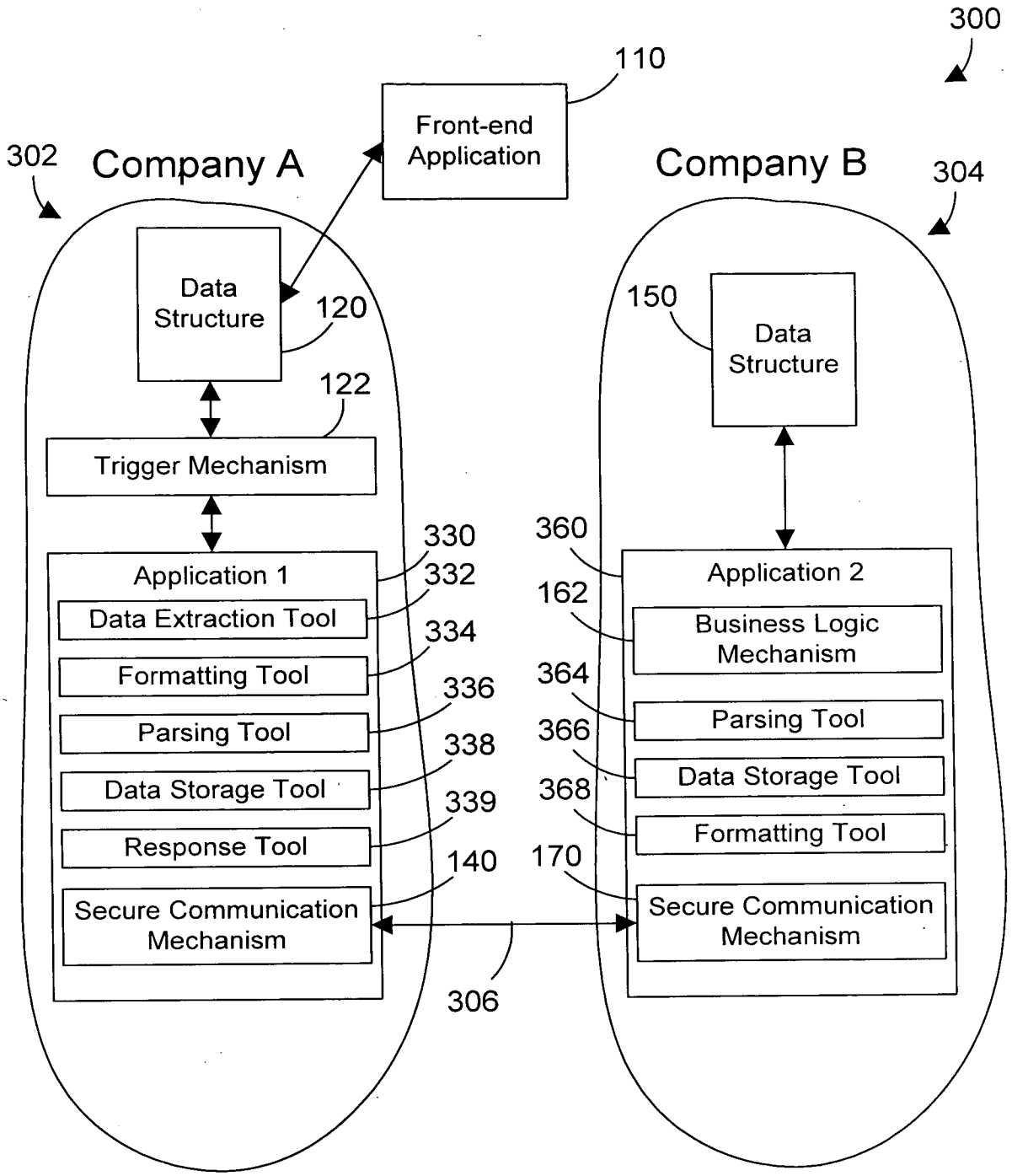
300
110
Front-end Application
302
Company A
Company B
304
Data Structure
120
122
Trigger Mechanism
150
Data Structure
330
360
Application 1
Application 2
332
162
Data Extraction Tool
Business Logic Mechanism
334
364
Formatting Tool
Parsing Tool
336
366
Parsing Tool
Data Storage Tool
338
368
Data Storage Tool
Formatting Tool
339
140
170
Response Tool
Secure Communication Mechanism
Secure Communication Mechanism
306

FIG. 3

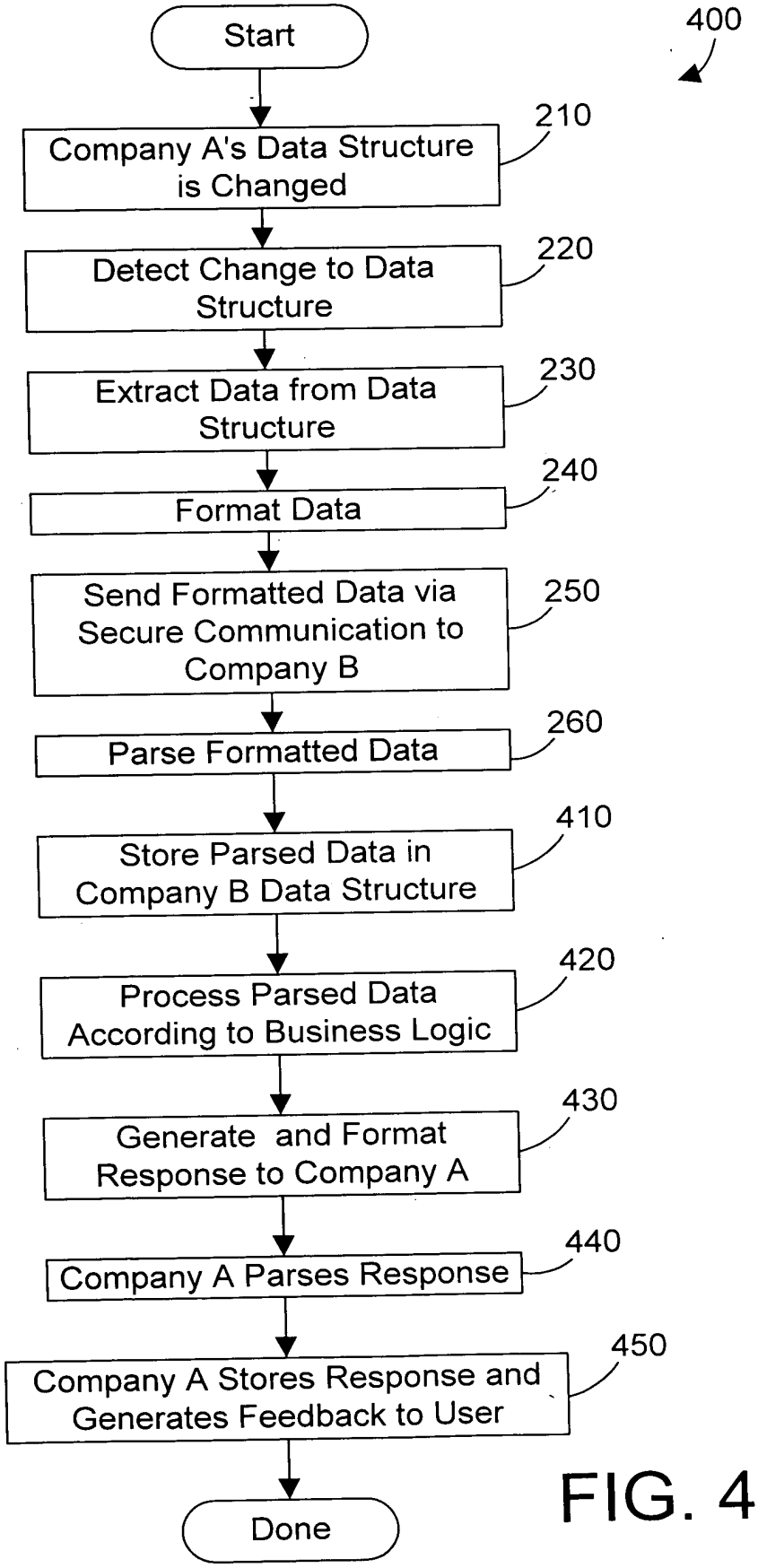
400
Start
Company A's Data Structure is Changed
210
Detect Change to Data Structure
220
Extract Data from Data Structure
230
Format Data
240
Send Formatted Data via Secure Communication to Company B
250
Parse Formatted Data
260
Store Parsed Data in Company B Data Structure
410
Process Parsed Data According to Business Logic
420
Generate and Format Response to Company A
430
Company A Parses Response
440
Company A Stores Response and Generates Feedback to User
450
Done

FIG. 4

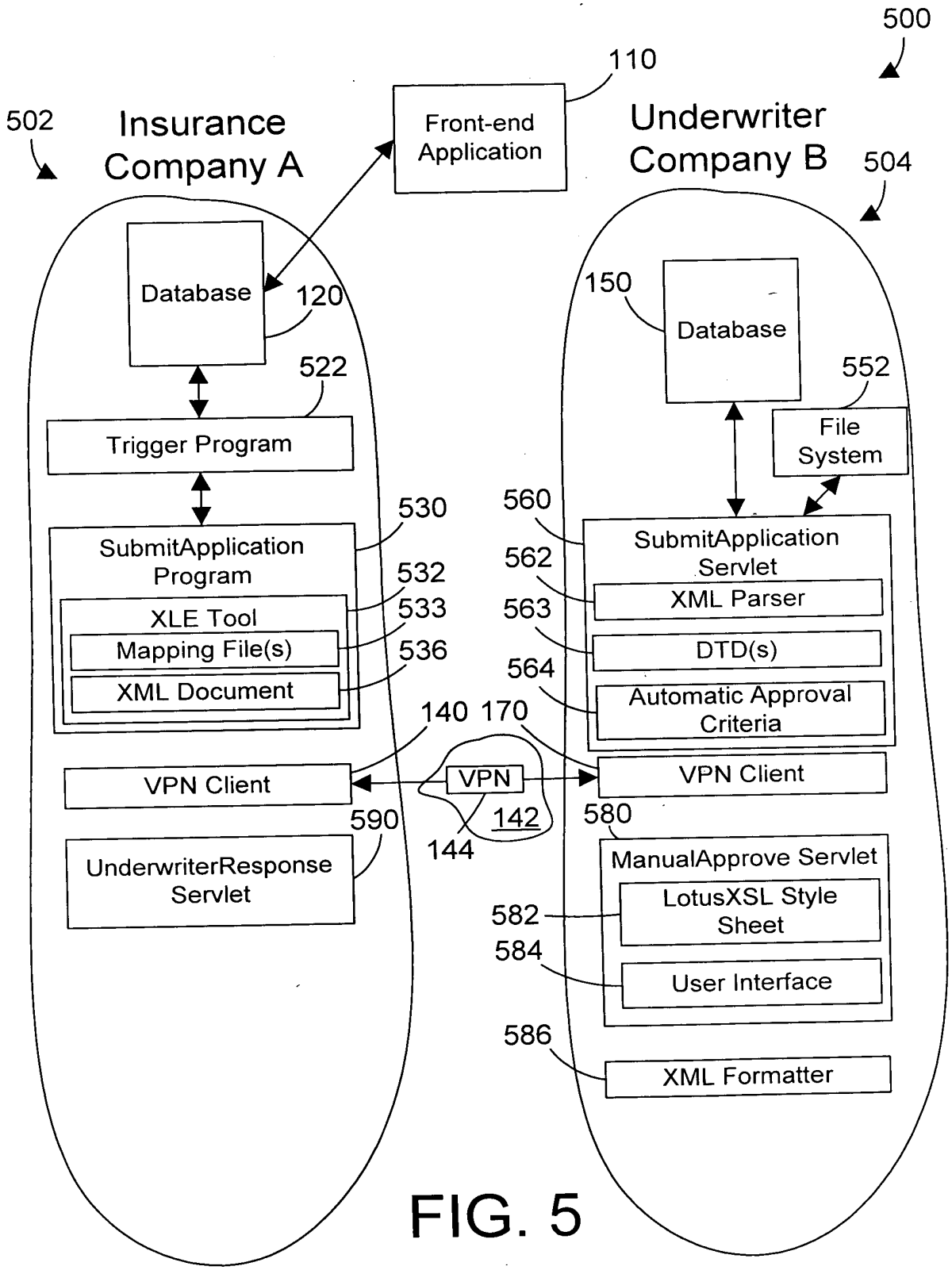
500
110
502
Insurance Company A
Front-end Application
Underwriter Company B
504
Database
120
150
Database
552
522
File System
Trigger Program
530
560
SubmitApplication Program
SubmitApplication Servlet
532
562
XML Parser
XLE Tool
533
563
DTD(s)
Mapping File(s)
536
564
Automatic Approval Criteria
XML Document
140
170
VPN Client
VPN
VPN Client
142
144
590
580
UnderwriterResponse Servlet
ManualApprove Servlet
582
LotusXSL Style Sheet
584
User Interface
586
XML Formatter

FIG. 5

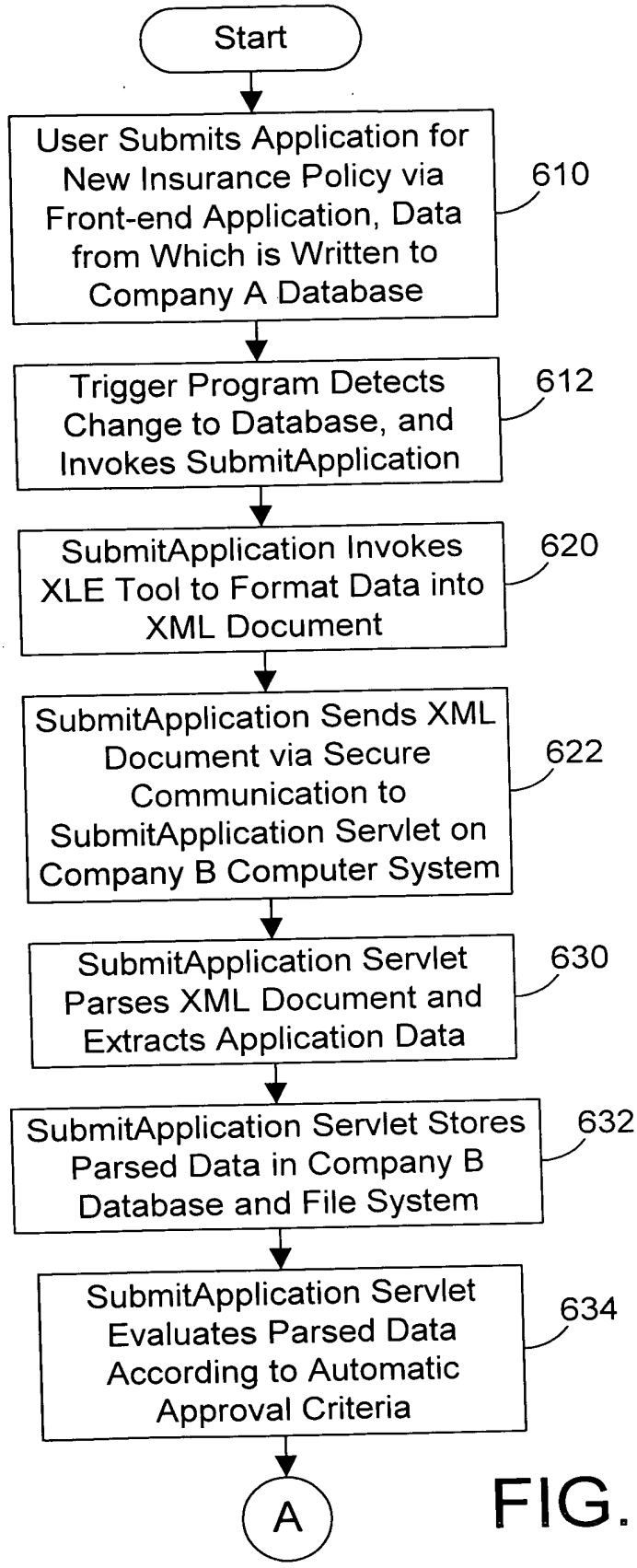

FIG. 6A

TO FIG. 6B

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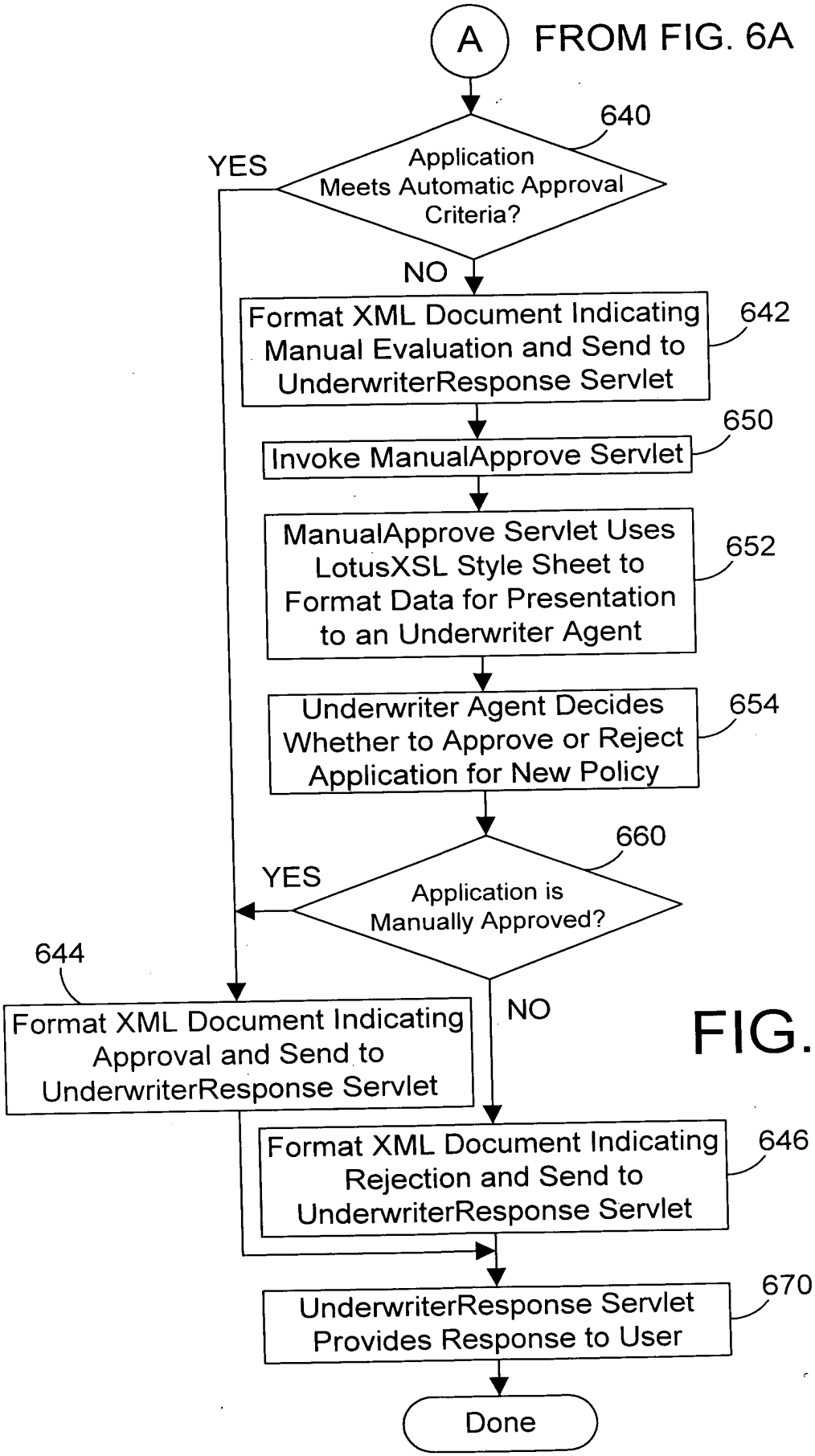

FIG. 6B

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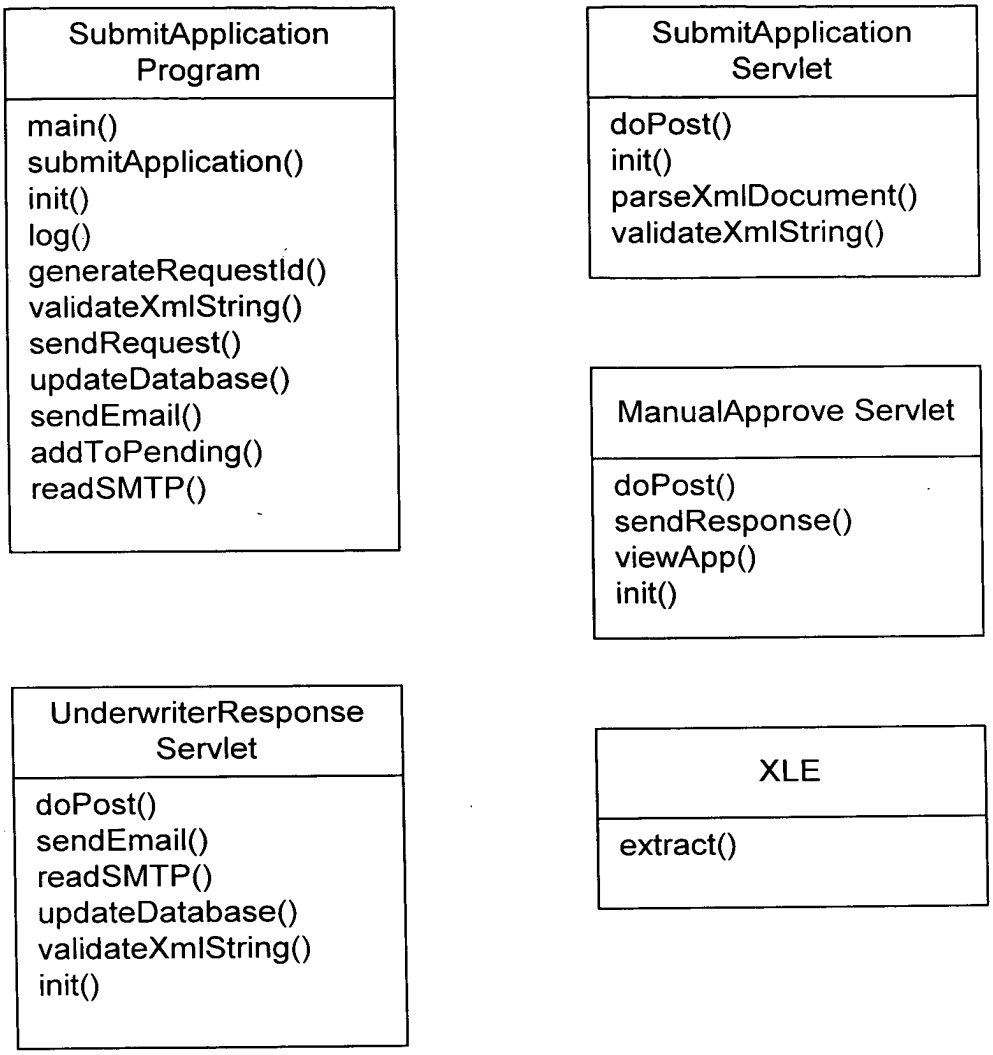
SubmitApplication Program
main()
submitApplication()
init()
log()
generateRequestId()
validateXmlString()
sendRequest()
updateDatabase()
sendEmail()
addToPending()
readSMTP()
SubmitApplication Servlet
doPost()
init()
parseXmlDocument()
validateXmlString()
ManualApprove Servlet
doPost()
sendResponse()
viewApp()
init()
UnderwriterResponse Servlet
doPost()
sendEmail()
readSMTP()
updateDatabase()
validateXmlString()
init()
XLE
extract()

FIG. 7